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1 Lightpath re-optimization in mesh optical networks
Eric Bouillet, Jean-François Labourdette, Ramu Ramamurthy, Sid Chaudhuri
April 2005 IEEE/ACM Transactions on Networking (TON), Volume 13 Issue 2
Publisher: IEEE Press
Full text available: pdf(853.85 KB) Additional Information: full citation, abstract, references, cited by, index terms
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Intelligent mesh optical networks deployed today offer unparalleled capacity, flexibility, availability, and, inevitably, new challenges to master all these qualities in the most efficient and practical manner. More specifically, demands are routed according ...
Keywords: network, optical, re-optimization., shared mesh

2 Efficient distributed restoration path selection for shared mesh restoration
Guangzhi Li, Dongmei Wang, Charles Kalmanek, Robert Doverspike
October 2003 IEEE/ACM Transactions on Networking (TON), Volume 11 Issue 5
Publisher: IEEE Press
Full text available: pdf(460.30 KB) Additional Information: full citation, abstract, references, cited by, index terms
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In MPLS/GMPLS networks, a range of restoration schemes will be required to support different tradeoffs between service interruption time and network resource utilization. In light of these tradeoffs, path-based end-to-end shared mesh restoration provides ...
Keywords: GMPLS, MPLS, RSVP-TE, optical network, shared mesh restoration

3 An adaptive survivability admission control algorithm using backup path for high-speed networks
Chi-Chun Lo, Bin-Wen Chuang
November 2003 International Journal of Network Management, Volume 13 Issue 6
Publisher: John Wiley & Sons, Inc.
Full text available: pdf(144.92 KB) Additional Information: full citation, abstract, references, index terms
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In this paper, we propose an adaptive survivability admission control algorithm using a backup path for high-speed networks. For each call request, the proposed algorithm selects a combination of working path and backup path. Two BP selection methods, ...

4 Fast approximate dimensioning and performance analysis of mesh optical networks
Jean-François Labourdette, Eric Bouillet, Ramu Ramamurthy, Ahmet A. Akyamaç
August 2005 | EEE/ ACM Transactions on Networking (TON), Volume 13 Issue 4
Publisher: IEEE Press
Full text available: pdf(655.29 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 55, Citation Count: 0

This paper presents a collection of approximation formulas that allow a network planner to quickly estimate the size of a mesh optical network with limited inputs. In particular, it provides a set of equations that relate number of sites, average fiber ...

Keywords: mesh networking, optical networks, performance analysis, restoration

5 Generalized loop-back recovery in optical mesh networks
Muriel Médard, Richard A. Barry, Steven G. Finn, Wenbo He, Steven S. Lumetta
February 2002 | EEE/ ACM Transactions on Networking (TON), Volume 10 Issue 1
Publisher: IEEE Press
Full text available: pdf(243.86 KB) Additional Information: full citation, abstract, references, cited by, index terms

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Current means of providing loop-back recovery, which is widely used in SONET, rely on ring topologies, or on overlaying logical ring topologies upon physical meshes. Loop-back is desirable to provide rapid preplanned recovery of link or node failures ...

Keywords: WDM, loop-back, mesh networks, network restoration

6 Improved quasi-path restoration in mesh networks
Maulin Patel, R. Chandrasekaran, S. Venkatesan
February 2008 | EEE/ ACM Transactions on Networking (TON), Volume 16 Issue 1
Publisher: IEEE Press
Full text available: pdf(702.47 KB) Additional Information: full citation, abstract, references, index terms

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Restoration of disrupted traffic is critical in today's high-speed self-healing telecommunication networks. A restoration scheme dynamically discovers alternate paths bypassing the failed component. This paper presents an (online) improved quasi-path ...

Keywords: integer linear programming, link restoration, network survivability, path restoration, quasi-path restoration, selfhealing networks, spare capacity allocation

7 Distributed computation of shared backup path in mesh optical networks using probabilistic methods
Eric Bouillet, Jean-François Labourdette

October 2004 | EEE/ ACM Transactions on Networking (TON), Volume 12 Issue 5
Publisher: IEEE Press
Full text available: pdf(816.43 KB) Additional Information: full citation, abstract, references, index terms

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We assess the benefits of using statistical techniques to ascertain the shareability of protection channels when computing shared-mesh restored lightpaths in optical mesh networks. These optical networks support wavelength conversion everywhere as a ...

Keywords: mesh protection, optical networks, optical switching, performance analysis, probabilistic algorithm

8 Optimal capacity placement for path restoration in STM or ATM mesh-survivable networks
Rainer R. Iraschko, M. H. MacGregor, Wayne D. Grover
June 1998 | EEE/ ACM Transactions on Networking (TON), Volume 6 Issue 3
Publisher: IEEE Press
Full text available: pdf(263.51 KB) Additional Information: full citation, references, cited by, index terms

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Keywords: capacity placement, mesh restoration, survivable networks

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